

Melanie Malone, Ph.D.

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ACADEMIC APPOINTMENTS

Assistant Professor, School of Interdisciplinary Arts and Sciences, University of Washington Bothell, September 2018 to present

Adjunct Assistant Professor, Department of Geography, University of Washington, Seattle 2021-present

Assistant Professor of Critical and Physical Earth Sciences, The Oregon Extension, 2017

Affiliate Assistant Professor of Critical and Physical Earth Sciences, Department of Biology and Chemistry, Eastern Mennonite University, 2017

NSF Integrative Graduate Education and Research Traineeship (IGERT) Fellow, 2013 to 2017

EDUCATION

Portland State University, Portland, OR Ph.D., Earth, Environment and Society	2017
Oregon State University, Corvallis, OR M.S., Soil Science	2008
Williams College, Williamstown, MA B.A., Geology and English Double Major	2005

CURRENT RESEARCH PROJECTS

Contaminants in Urban Community Gardens (2019 to present)

- Sample collection from garden beds in community gardens and individual gardens throughout the Seattle Metro Region
- Samples analyzed for endocrine disrupting and carcinogenic contaminants such as glyphosate, heavy metals, PCBs, and petroleum degradates
- Survey collection and interviews to understand general practices in and between gardens to explore the following topics: concentration levels of contaminants in organic community gardens; social and physical practices contributing to or mitigating contaminants in community gardens; sources of community garden contaminants; whether environmental justice mandates affect garden practices; federal policies affecting garden contaminant concentrations

Duwamish Valley Research Coordination Network (2021 to present)

- Sample Lower Duwamish Superfund site and upland locations for contaminants of concern (COCs) in soil, sediment, and water
- Create and assess aerial imagery collected by drone to identify areas with the Lower Duwamish that need further contaminant investigation and to facilitate community discussion on areas of concern in the superfund
- Facilitate connections between community partners and local researchers (in UW and across various organizations working on the superfund)
- Host community science sampling and educational events

Resting Safe: Homeless Community Control of Urban Space (2018 to present)

- Assess homeless populations' exposure to potentially harmful contaminants in contaminated homeless rest areas in two U.S. cities
- Analysis of GIS maps used to share with homeless community members in homeless resting sites
- Oversight of historical record searches for contaminant history at homeless area sites

PREVIOUS RESEARCH PROJECTS

Ph.D. Research: Using Critical Physical Geography to Map the Unintended Consequences of Conservation Management Programs, Wasco County, OR (2013- 2017)

- Analyzed landscape and herbicide spectral signature changes due to agricultural practices in primarily no-till agricultural landscapes and lands placed in Conservation Reserve Enhancement Program (CREP) contracts using spatial analysis. Utilize Geographic Information System (GIS) databases, Landsat TM remotely sensed imagery, LiDAR, and aerial imagery in the analyses.
- Performed field sampling to determine if herbicide concentrations indicative of agrochemical use in surface waters of a predominantly no-till landscape exceed screening criteria protective of human and ecological health. Sampled glyphosate/AMPA and chlorinated herbicides.
- Identified sources of sedimentation issues in county watersheds by field sampling and spatial analysis (using isotope cesium-137 soil and sediment collection from erosional source areas).
- Evaluated effectiveness of conservation programs for intended purposes, unintended consequences, and effects on soil ecosystem services and water quality.
- Conducted social surveys and interviews to determine past agricultural land use histories and socio-political drivers of conservation choices and agricultural systems.
- Collaborated with interagency technical team on assessing effectiveness of agricultural practices in watershed management advisory group.

M.S. Thesis: Predictive mapping for the delineation of land type association units in the Fremont National Forest, OR (2006-2008)

- Mapped the geology, soils, and vegetation of the Fremont portion of the Fremont-Winema National Forests using field methods and Geographic Information System (GIS) technology in order to produce a digital Land Type Association (LTA) map for the U.S. Forest Service.
- Delineated landforms in study locations with Landsat TM remotely sensed imagery and ENVI software program.
- Used the decision tree analysis (DTA) program CART to create spreadsheets for the program See 5 for analysis.
- Produced digital soil maps by means of predictive mapping.

Undergraduate Winter Study: Mapping a Fringing Reef Complex Supervised by Prof. Rónadh Cox (2004) St. Johns, U.S.V.I.

- Transect sampling for species population in environmentally degraded reef
- Collected and compiled data on reef's condition in 2004 and compared with records of reef's condition in 1996
- Recorded extent of reef complex using Garmin GPS instruments

PUBLICATIONS

Accepted

Peer Reviewed Articles

Malone, M. and McClintock, N. (2022) A Critical Physical Geography of No-Till Agriculture: Linking Degraded Environmental Quality to Conservation Policies in an Oregon Watershed. *The Canadian Geographer*. <https://doi.org/10.1111/cag.12789>

Malone M. (2021) Seeking Justice, Eating Toxics: Overlooked Contaminants in Urban Community Gardens. *Agriculture and Human Values*. 165-184. <https://doi.org/10.1007/s10460-021-10236-8>

Malone M. (2020) Teaching Critical Physical Geography. *Journal of Geography in Higher Education*. 465-478. DOI: 10.1080/03098265.2020.1847051

Denham D., Rozance M.A., **Malone M.**, and Goodling G (2020) Sustaining future environmental educators: building critical interdisciplinary teaching capacity among graduate students. *Journal of Environmental Studies and Sciences*. 101-114. DOI: 10.1007/s13412-020-00611-y.

Malone M. and Foster E. (2019) A mixed-methods approach to determine how conservation management programs and techniques have affected herbicide use and distribution in the environment over time. *Science of the Total Environment* 660: 145–157. DOI: [10.1016/j.scitotenv.2018.12.266](https://doi.org/10.1016/j.scitotenv.2018.12.266).

Malone M. and Polyakov V. (2019) A physical and social analysis of how variations in no-till conservation practices lead to inaccurate sediment runoff estimations in agricultural watersheds. *Progress in Physical Geography: Earth and Environment*: 0309133319873115. 151-167. DOI: [10.1177/0309133319873115](https://doi.org/10.1177/0309133319873115).

Book Chapters

Lave, R. and **Malone, M.** (2022). “Doing engaged scholarship: Why methods matter”, in: Clifford, N., Cope, M., Gillespie, T., French, S. *Key Methods in Geography*. (accepted with anticipated release in autumn 2023)

Kelley, L.C., Clifford, K.R., Reisman, E., Lea, D., Matsler, M., Liebman, A., **Malone, M.**, (2018). “Charting a Critical Physical Geography Path in Graduate School: Sites of Student Agency”, in: Lave, R, Biermann, C, Lane, SN (Eds.), *The Palgrave Handbook of Critical Physical Geography*. Springer International Publishing, Cham, pp. 537–557. https://doi.org/10.1007/978-3-319-71461-5_25

In Review

Malone, M., Hamlin, S., Richard, S. (2022). Uprooting Urban Garden Contamination. *Environmental Science and Policy*.

Special Issues

Special Issue entitled “Confronting Structures of Power” in *Capitalism Nature Socialism*. The special issue is **accepted** and initial submission to the journal will take place in December 2022. I am the guest editor in charge of organizing the papers and reviews.

Dissertations/Theses

Malone M. (2017) Using Critical Physical Geography to Map the Unintended Consequences of Conservation Management Programs. *Dissertations and Theses*.
<https://doi.org/10.15760/etd.3418>

Malone, M. (2008) Predictive mapping for the delineation of landtype association units in the Fremont National Forest, Oregon. *Oregon State University*.
http://ir.library.oregonstate.edu/xmlui/bitstream/handle/1957/8909/malone_melanie_thesis.pdf?sequence=1

SELECTED TECHNICAL REPORTS

Malone, M. Soil Investigation. 2013. “North Fork Wetland Enhancement Project Clackamas County, Oregon”. URS. Prepared for Portland General Electric and Oregon Department of Environmental Quality

Weatherby, D. and **M. Malone**. 2012. “Phase II Environmental Site Assessment for Fred’s Marina Property”. URS. Prepared for Portland Harbor Holdings III, LLC and Oregon Department of Environmental Quality

Malone, M. and D. Weatherby. 2011. “Final Phase I Environmental Site Assessment. Alder Creek Lumber Mill, Portland, Oregon”. URS. Prepared for Portland Harbor Holdings LLC and Oregon Department of Environmental Quality

Weatherby, D. and **M. Malone**. 2012. “Focused Feasibility Study: Former Gun Club 88233 Greenhill Road, Eugene, Oregon. ECSI #4842”. URS. Prepared for Davidson Industries, Inc. and Oregon Department of Environmental Quality and Environmental Protection Agency.

Malone, M. and D. Weatherby 2010. “Results of Hydrology Assessment for Proposed China Mountain Wind Energy Project. URS. Prepared for RES America Development, Inc. and Bureau of Land Management (BLM)”

Noller, J.S., **Malone, M.**, Peterman, W., Slevin, S., and Hash, S., 2009. “Map of Landtype Associations for the Fremont portion of the Fremont-Winema National Forest”. 1:100,000 scale: US Forest Service

PRESENTATIONS

Invited Speaking Presentations

Malone, M. “Uprooting Urban Garden Contamination”. University of Vermont January 2022; Indiana University February 2022.

Malone, M. “Risk and resistance: Forming collaborative and co-generative research strategies to mitigate contamination in community gardens”. University of Washington College of Built Environment, Post-Pandemic Sustainabilities Symposium. Seattle, WA. May 2021.

Malone, M. NightSchool: Women in Science. Description [here](#) and youtube watch [NightSchool: Women in Science - YouTube](#) . California Academy of Sciences. March 2021.

Malone, M. "Urban gardens and environmental injustices: collaborating with communities to address risks to gardeners". National Socio-Environmental Synthesis Center (SESYNC) Distinguished Scholars Seminar. October 2021.

Malone M. "Seeking Justice, Eating Toxics: Overlooked Contaminants in Urban Community Gardens". University of Washington Environmental Geography Colloquium October 2020; University of Arizona Environmental Science Colloquium October 2020; University of Washington School of Marine and Environmental Affairs February 2021.

Malone M. "Teaching Critical Physical Geography". Washington, D.C. April 2019 and New Orleans, LA. April 2018.

Malone, M. "No-till, No Food?" Soil Not Oil Coalition. Portland, OR. June 2017.

Malone, M. "A Critical Physical Geographical Analysis of Conservation Management Practices: Implications for Soil Quality, Water Quality, and Food Security". American Association of Geographers (AAG) Boston, MA. April 2017.

Malone, M. "A Critical Physical Geographical Analysis of Soil Quality in an Agricultural Setting". The Association of Pacific Coast Geographers (APCG). Portland, OR. October 2016.

Malone, M. "Mapping the Unintended Consequences of No-Till Agriculture: Changes in Vegetation Over Time from Increased Herbicide Drift in Wasco County, Oregon". American Association of Geographers (AAG) San Francisco, CA. March 2016.

Malone, M. "Give and Take: A Social and Biophysical History of Youngs Bay, Oregon". American Association of Geographers (AAG) Chicago, IL. April 2015.

Malone, M. "Predictive Mapping and Landtype Associations in the Fremont National Forest". Keynote Student Speaker at Oregon Society of Soil Scientist Meeting. Boise, ID. January 2008.

Poster Presentations

Malone, M. "Mapping the Unintended Consequences of No-Till Agriculture: Changes in Vegetation Over Time from Increased Herbicide Drift in Wasco County, Oregon". Portland State University 4th Annual Student Research Symposium. Portland, OR. May 2016.

Malone, M.R., and Noller, J.S., 2008, "Digital Soil Mapping in the Fremont National Forest of South-Central Oregon". Joint Meeting GSA-ASA, Houston, TX. 2008.

Malone, M. "Predictive Mapping in the Fremont National Forest, Oregon". Western Society of Soil Science. Boise, ID. June 2007.

Panel Sessions as Organizer and Chair

Confronting structures of power in biophysical research. American Association of Geographers (AAG). Seattle, WA. April 2021.

Facilitated Workshops

Critical Physical Geography Dissertation Workshop. Primary host for workshop of postdoctoral scholars and PhD students working on dissertations and manuscripts in CPG literature.

SERVICE

Advisory Committees

- Sustainable Seattle Board of Directors (2022-present)
- IAS I-DISCO Committee (2019 to present)
- Earthlab Application Review Team (2020-2021)
- St. Edward State Park Advisory Committee (2018 to 2020)
- Black Geographies Specialty Group Committee on Supporting Physical Geographers and GIS Practitioners (2018 to present)
- Doris Duke Conservation Scholars Program Review Team (2019)
- UW Bothell Field Education Learning Community (2018 to 2019)
- FifteenMile Watershed Coordination Group (2013 to 2019)

IAS Curricular Area Working Groups (CAWGS)

- Earth System Science (ESS) CAWG (2019 to present)
- Environmental Studies (ES) CAWG (2018 to 2019)
- Conservation and Restoration Science (CRS) CAWG (2019 to present)
- Affiliate faculty for the Master of Arts in Policy Studies (MAPS) CAWG (2018 to present)

Student Advising

- Cynthia Petraccaro (Earth Systems Science Capstone) (2021-2022)
- Manda Pelly (MAPS Graduate Program) (2021-2022)
- Sydney Steurer (Independent Study 2021)
- Alondra Mendez (Independent Study 2021)
- Daelen Gates (GIS Peer Facilitator 2021 Co-mentor) and (Independent Study 2021)
- Ammara Touch (UW Independent Study 2020-2021/ Doris Duke Conservation Scholar)
- Emily Gilroy (Independent Study 2020)
- Simon Richard (Independent Study 2020)
- Alex Wachter 2020 (IAS Interdisciplinary Scholar 2020)
- Olivia Wright (MAPS Graduate Program 2019)
- Jade Mitchell (Independent study 2019)
- Ginny Liu (Independent study 2019)

Student Advising outside IAS

- Lupe Estrada (Doris Duke Conservation Scholar)
- Bennet Walkes (Doris Duke Conservation Scholar)
- Kaytlen Cruz (Doris Duke Conservation Scholar)
- Sierra Hurtado (Doris Duke Conservation Scholar)

Reviewer for Journals

- Science of the Total Environment
- Environmental Pollution
- Progress in Physical Geography
- Agriculture and Human Values
- Journal of Higher Education Outreach and Engagement

GRANTS AWARDED

- EPA Science to Achieve Results (STAR) Climate Change and Environmental Justice (\$1,265,703). (2022-2025)

- Tier 3 UW Population Health Grant: Scaling for Greater Impact Spring 2022 (\$200,000) (2022-2024)
- King County Department of Natural Resources and Parks. Funds to sample Wastewater Treatment Soils at Study Farm for CPG class. (\$55,000) (2022)
- Antipode Foundation Right to the Discipline Award (Co-PI) (\$14,100) (2021-2022)
- Living Landscape Incubator Grant (Bullitt Foundation and University of Washington) (PI) (\$18,750) (2021-2022)
- National Science Foundation (NSF) Advancing Informal Learning in STEM (AISL) (Co-PI) "RESTING SAFE: Collaborative Informal STEM Learning Between Researchers and Homeless Communities" (\$400,000) (2020-2023)
- University of Washington COVID-19 Population Health Initiative Equity Research Grant (PI) (\$20,000) (2020-2021)
- Urban@UW Research Spark Grant (Co-PI) (\$20,000) (2020-2021)
- St Edward Environmental Education and Research Center UWB investment Fund (Co-PI) (\$600,000) (2021-2024)
- University of Washington Royalty Research Fund (PI) (\$39,993) (2020-2021)
- Antipode Foundation Scholar-Activist Project Awards (Co-PI) (\$13,285) (2018-2019)
- BLM (OR/WA) Analysis and Monitoring of Cascade-Siskiyou National Monument Resources (PI) (\$225,000) (2017- 2022)

GRANTS IN REVIEW

- USDA Partnership for Climate-Smart Commodities National Funding Opportunity Co-PI (\$4,865,136) (2023-2028)

FELLOWSHIPS

- Ecosystem Services for Urbanizing Regions (ESUR) National Science Foundation Integrative Graduate Education Research and Traineeship (NSF-IGERT) Fellowship (\$88,000) (2013-2017)
- Environmental Internship Fellow from Williams College Center for Environmental Studies (\$6,000) (2003 and 2004)

COLLABORATIVE RESEARCH FUNDS AWARDED IN SUPPORT OF DISSERTATION RESEARCH

- Oregon Department of Agriculture. Salem, OR. Herbicide Laboratory Analysis. (\$2,000) (2015)
- NSF IGERT Research Funds (\$20,000) (2016)
- Southwest Agricultural Research Station. Tucson, Arizona. Cesium-137 analysis (\$30,000) (2016-2017)
- U.S. Geological Society. Glyphosate Sample Analysis (\$12,420) (2016-2017)

AWARDS AND HONORS

- UW Bothell Connected Learning Excellence Award 2021 (\$6,000)
- UW Bothell Interdisciplinary Arts & Sciences Fall 2020 Faculty Feature
- Association of Collegiate Planning (ACSP) Curriculum Innovation Award Winner (Co-PI) (\$7,000) (2020-2021)
- NSF IGERT Mentor 2016-2017 academic year
- URS Junior Professional Award for Outstanding Performance and Excellence (2010)
- Second Place Poster Presentation Award for "Predictive Mapping in the Fremont National Forest, Oregon" Awarded by AAAS, Pacific Division and WSSS (2007)

PROFESSIONAL ASSOCIATIONS AND AFFILIATIONS

- Association of American Geographers (AAG) (2014 to present)
- Black Geographies Specialty Group (2017 to present)
- Geographies of Food and Agriculture Specialty Group (2014 to present)
- Cultural and Political Ecologies Specialty Group (2014 to present)
- Crop Science Society of America (CSSA) (2013 to present)
- Soil Science Society of America (SSSA) (2013 to present)
- American Society of Photogrammetry and Remote Sensing (ASPRS) (2013 to present)

CONTINUING PROFESSIONAL DEVELOPMENT

- I-DISCO Research Interest Group (RIG): Research Productivity and Life Balance among Junior Faculty (2019-2020)
- IAS Geography Writing Group (2019-2022)

TEACHING EXPERIENCE

University of Washington as Assistant Professor

BEARTH 317 Soils and the Environment (Autumn 2021)
BIS 342 Geographic Information Systems (GIS) (Spring 2020; Autumn 2020)
BIS 307: Environmental Justice (Fall 2019; Winter 2020; Autumn 2020, 2021; Winter 2021, 2022,)
BIS 344: Intermediate GIS) (Spring 2019; Winter 2020, Winter 2021)
BIS 242: Environmental Geography (Fall 2018; Fall 2019; Winter 2019)
BIS 490/BIS 408: Critical Physical Geography (Spring 2019, Spring 2020)
HUM 597: Special Microseminar "Abolition Geographies" with Ruth Wilson Gilmore and Megan Ybarra (Winter, 2021)

The Oregon Extension as Assistant Professor

ENVS 395: Environmental Studies and the Natural World (Fall 2017)
ENVS 396: Perspectives on the Relationship of Science and Society (Fall 2017)
BIO 397: Forest Management Lab Science for a Sustainable World (Fall 2017)
ENVS 398: The Natural Sciences on the Human Person (Fall 2017)

Portland State University as Instructor

ESM 407/507: School of the Environment Speakers Seminar (Winter 2017)
ESM 399: Urban Rivers. Environmental Policy, Planning, and Activism (Spring 2016) (with Instructors Diana Denham and Mary Ann Rozance) <http://urbanrivers.weebly.com/>

Oregon State University as Teaching Assistant

SOIL 205: Soil Science (Fall 2006; Fall 2007)

Williams College as Teaching Assistant

GEOS 104: Oceanography (Spring 2005)

ENVIRONMENTAL CONSULTANT PROJECT SPECIFIC EXPERIENCE

Geologist, URS Corporation, 2008 to 2013:

Environmental Site Assessments (ESAs) / Remediation Projects

Assistant Project Manager/Field Manager (2012-2013)

Phase I and II EPA Environmental Assessments (ESAs), Confidential Client, Former Industrial Site in the Portland Harbor, OR

- Performed Phase I for a confidential client in the Portland Harbor
- Researched historical information regarding environmental site history
- Performed Phase II field investigation activities including soil sample collection along stormwater flow pathways
- Conducted oversight of drilling activities and installation of monitoring wells on site
- Delineated nature and extent of solvent use at facility

Soil Scientist (2011-2013)

Corvallis Loop Cultural Assessment, NW Natural, Corvallis, OR

- Identified soil types in an area of archaeological interest along a proposed pipeline installment in the Willamette Valley of Oregon
- Assessed geomorphic surfaces in area of interest for likelihood of finding archaeological artifacts in the Willamette Valley and prepared technical report for involved clients
- Prepared figures of soils and geomorphic surfaces of interest for archaeologist field team in GIS systems (ArcMap)

Assistant Project Manager /Field Manager (2010- 2013)

Phase I and II ESAs, Confidential Client, Former Industrial Site in the Portland Harbor, OR

- Performed Phase I for a confidential client that proposes to restore a former industrial site to salmonid habitat as mitigation for Natural Resources Damages in the Portland Harbor
- Reviewed historic aerial photography from Army Corp of Engineers for assessment of previous site activities
- Conducted site investigation activities required by DEQ for upland sites in the harbor which included identification of potential sources of contamination and assessment of the nature and extent of contamination in the site media
- Characterized stormwater flow pathways on site and assessed whether stormwater pathways were significant sources of contamination to the harbor
- Performed Phase II field investigation activities including soil sample collection along stormwater flow pathways and excavation of test pits to define the magnitude and extent of contamination
- Conducted oversight of drilling activities and classification of soils according to USCS standard
- Prepared figures of site and sampling locations in GIS systems (ArcMap)

Project Manager (2010-2013)

Geospatial Assessment, China Mountain Wind Turbine Generator Project, Idaho

- Conducted spatial analysis using GIS to assess existing data representative of the current conditions of roads leading to planned wind turbine generators (ArcMap)
- Evaluated locations of proposed roads using spatial imagery and soil survey information
- Identified locations where road construction improvement and maintenance could interact with elements of the hydrologic system that are important to the flow and quantity of surface waters within the watersheds
- Prepared technical report detailing locations of concern for future field investigation

Field Manager (2010 – 2013)

Shell Retail Groundwater Monitoring, Shell SOPUS Corporation, Portland Metro Area

- Field manager for groundwater sampling and monitoring at numerous Shell retail stations throughout the Portland Metropolitan area.
- Completed technical reports detailing site-specific groundwater flow and historical analytical results from monitoring wells
- Coordinated with Shell consultants and site contacts for information regarding specific retail stations
- Conducted oversight for installation of groundwater monitoring wells for sites needing further assessment

Assistant Field Manager (2010)

Phase II ESA, City of Portland Bureau of Transportation, SW Moody Avenue Improvement Project, Portland, OR

- Performed Field Manager duties for Phase II ESA soil and groundwater investigation activities on major road and light-rail construction project
- Conducted and managed collaboration between drilling contractors and light-rail construction employees
- Assessed locations of environmental concern in areas of road improvement and excavation
- Prepared figures of site and sampling locations in GIS systems (ArcMap)

Field Manager (2010)

Phase II EPA Split Sampling Investigation, PGE Beaver Generating Plant, Clatskanie, OR

- Conducted split-sampling techniques of soil and surface water with EPA Superfund Technical Assessment and Response Team (START)
- Analyzed collected data and spatial information to determine extent of impacted soil at site facility
- Prepared figures of site and sampling locations in GIS systems (ArcMap)

Field Manager (2009-2013)

VCP Investigation, Former Lumber Mill and Gun Club RI for Davidson Industries, Eugene, OR

- Managed field and technical duties for a soil and groundwater investigation of the subject property as required by DEQ VCP requirements
- Soil core logging and classification according to USCS standard
- Soil classification and survey according to NRCS standard
- Prepared technical remediation reports
- Delineated contamination, potential cap areas, and vegetation using GPS unit
- Prepared figures of site and sampling locations in GIS systems (ArcMap)

Field Manager (2009)

Phase II ESA, TriMet Environmental Site Assessments, Portland, OR

- Performed Phase II investigations of subject properties for Trimet prior to acquisition
- Soil core logging and classification according to USCS standard
- Prepared Phase II environmental site assessment report for client

Assistant Project Manager/ Field Manager (2008)

Soil and Groundwater Investigation, Leahy Property, Washington County, OR

- Conducted a soil and groundwater investigation of the subject property to obtain information necessary to determine if Leahy Property qualified as farmland of statewide importance
- Soil classification and survey according to NRCS standard

- Conducted beneficial water use determination to determine if applicant's proposed use of the property would affect groundwater quantity

In-Water Sediment Investigations

Field Manager (2010- 2013)

Upland and In-Water Data Reports, Downtown Reach of the Willamette River, Confidential Client, Portland, OR

- Conducted upland sampling of historic properties and in-water remedial investigation for the Downtown Reach of the Willamette River
- Prepared health and safety plans and provided technical assistance on data report for the Willamette River Sediment Remedial Investigation
- Coordinated with other field staff members and subcontractors (drillers, laboratories, and boat driver/diver contractors) for the upland and in-water field work
- Assisted with sediment sampling onboard the investigation vessel and classified soils according to USCS soil classification

Portland Harbor Superfund Projects

Assistant Project Manager (2010-2013)

Superfund Site Investigation, Confidential Client, Portland, OR

- Author of EPA disclosure questionnaire for confidential client in the Portland Harbor
- Organized environmental records for Superfund site and created document structure to be incorporated into EPA disclosure questionnaire response
- Corresponded with local DEQ and EPA agencies for information regarding site history in addition to site operators and client attorneys for historical information regarding the site
- Prepared detailed environmental history of site, neighboring properties, and identified constituents of concern at site
- Identified areas of historic concern at site including USTs and reviewed historic UST registration and permitting
- Researched permitting history of facility including NPDES, RCRA, and stormwater permits

Assistant Project Manager (2008-2009)

Superfund Site Investigation, Confidential Client, Portland, OR

- Author of EPA 104e response submittal for confidential client
- Collected environmental records of site for client
- Prepared detailed environmental history of site and associated properties
- Documented client's spill history, environmental permitting, and waste disposal/production at the site

PREVIOUS EXPERIENCE

Student Research Assistant (2006- 2008)

Oregon State University, Corvallis, OR

- Performed spatial analysis with ArcGIS 9.x, ENVI, Erdas Imagine CART sampling tool, and See 5.
- Created and manipulated spatial data layers, produced maps, analyzed data, and generated visually pleasing presentation materials.
- Collected data with GPS (Garmin) and Arcpad for field data collection processes.
- Compiled information on and implemented publicly available geographic data resources into research

Student Intern (2004)

Lead Abatement Program, City Hall, Springfield, OH

- Identified Lead Based Paint Hazards
- Performed Lead Inspections/ Sampling Techniques in lead contaminated homes
- Participated in outreach programs targeted towards children
- Task lead for editing and researching information for department renewal grant

Student Intern (2004 & 2002)

Environmental/Risk Management Department, City Hall, Springfield, OH

- Performed chemical inventory in all of the city's major places of employment
- Compiled information for chemical emergencies
- Updated and collected Material Safety Data Sheets (MSDS) for each city place of employment
- Compiled data sets on city environmental risks and safety issues, identified buildings of environmental concern
- Created presentation for city officials intended to improve safety of city employees

Trailside Manager (2003)

Glen Helen Ecology Institute, Yellow Springs, OH

- Managed and maintained Glen Helen nature museum
- Led educational tours about the nature preserve to visiting groups
- Planned and performed educational activities for children
- Compiled data set of visitors to the museum
- Monitored Zikua ozone level station on the premises